## Pranjal Sahu

EXPERIENCE

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Work

2019 - 2019

2015 - 2015

2013-2015

Summer Internship

Software Engineer

Data Scientist

CONTACT Information	Department of Computer Science Stony Brook University Computer Science Building, Engineering Dr Stony Brook, New York 11790 USA https://www3.cs.stonybrook.edu/~psahu	(631)590-0490 psahu@cs.stonybrook.edu github.com/PranjalSahu stackoverflow.com/users/907770	
RESEARCH INTERESTS	Deep Learning, Computer Vision, Computer Graphics and its application in Biomedical Imaging such as De-noising, Bio-markers detection, Volume reconstruction.		
EDUCATION	Stony Brook University, 3.87		
	Ph.D. Student in Computer Science (2016-2021 expected)		
	<ul> <li>Dissertation Topic: Deep Learning in Biomedical Imaging</li> <li>Advisor: Dr. Hong Qin</li> </ul>		
	Indian Institute of Technology Kharagpur, 8.35		
	B.Tech.(Hons) in Computer Science, 2013		
	<ul> <li>Thesis Topic: Object tracking in video and its application in Healthcare.</li> <li>Advisor: Dr. A.K. Majumdar</li> </ul>		
SELECTED PUBLICATIONS	<b>Pranjal Sahu</b> , Yiyuan Zhao, Parmeet Bhatia, Luca Bogoni et al. Self-supervised Structure Correction for Robust Lung Segmentation in Presence of Tumors, IEEE Journal of Biomedical and Health Informatics, J-BHI, 2019. (Submitted)		
	<b>Pranjal Sahu</b> , Hailiang Huang, Wei Zhao, and Hong Qin. <i>Using virtual digital breas tomosynthesis for de-noising of low-dose projection images</i> , International Symopsium on Biomedical Imaging, ISBI 2019.		
	<b>Pranjal Sahu</b> , Dantong Yu, Mallesham Dasari, Fei Hou and Hong Qin. <i>A Lightweigh Multi-section CNN for Lung Nodule Classification and Malignancy Estimation</i> , IEEE Journal of Biomedical and Health Informatics, J-BHI, 2018.		
	<b>Pranjal Sahu</b> , Dantong Yu and Hong Qin. Apply lightweight deep learning on internet of things for low-cost and easy-to-access skin cancer detection, Medical Imaging Imaging Informatics for Healthcare, Research, and Applications, International Society for Optics and Photonics, SPIE, 2018 (Best Demo Award).		
	<b>Pranjal Sahu</b> , Dantong Yu and Kevin Yager, Mallesham Dasari and Hong Qin. <i>In-Operando Tracking and Prediction of Transition in Material System using LSTM</i> , International Workshop on Autonomous Infrastructure for Science, HPDC, 2018.		
SCIENTIFIC RESEARCH	Robust semantic segmentation of Lung CT. Advisor: Dr. Yiyuan Zhao Siemens Healthineers, Malvern, PA. (2019)		

Autonomous Infrastructure for Transition Prediction. Advisor: Dr. Dantong Yu **Brookhaven National Laboratory**, Computational Science Initiative (2017)

Siemens Healthineers, Malvern, PA, USA

Samsung Research Institute, Noida, India

HT Media, Gurgaon, India

Honors and Awards	2018 Best Demo Award in SPIE Medical Imaging Conference 2016–2017 Computer Science Chairman Fellowship, Stony Brook University 2007 Mahatma Hansraj merit award in CBSE Board 2006-07 2005 Represented (C.G.) state in National Children Science Congress	
TEACHING EXPERIENCE	Spring 2017 Teaching Assistant, Computer Graphics (Undergraduate) Spring 2017 Teaching Assistant, Medical Imaging (Undergraduate)	
OTHER TALKS AND PUBLICATIONS	Mallesham Dasari, Arani Bhattacharya, Santiago Vargas, <b>Pranjal Sahu</b> , Aruna Balasubramanian, Samir Das. <i>Streaming 360 degree Videos using Super-resolution</i> , IEEE INFOCOM 2020.	
	Hailiang Huang, <b>Pranjal Sahu</b> , Xiaoyu Duan, Wei Zhao. <i>Denoising and Scatter Correction for Contrast-Enhanced Digital Breast Tomosynthesis</i> , RSNA 2019, Chicago.	
	Xiaoyu Duan, <b>Pranjal Sahu</b> , Hailiang Huang, Wei Zhao. Scatter correction deep learning approach for contrast enhanced digital breast tomosynthesis (CE in both cranio-caudal (CC) view and mediolateral oblique (MLO) view, IWBI (Submitted).	
	Na Song, Daniela Craciun et al. <i>Protein Shape Retrieval</i> , Eurographics Workshop on 3D Object Retrieval, 3DOR 2017.	
Graduate Coursework	□ Computer Graphics       □ Artificial Intelligence         □ Computer Vision       □ Analysis of Algorithms         □ Computer Networks       □ Asynchronous Systems         □ Convex Optimization	
RELEVANT SKILLS	Languages: Python, C++, C, Matlab Deep Learning: Keras, Tensorflow, Pytorch Libraries: OpenCV, Android SDK, Numba, Nltk IDEs: Jupyter Notebook, Eclipse, Android Studio	
ACADEMIC PROJECTS	Facial Action Unit Detection, Computer Vision, (Tensorflow).	
	Stochastic Quasi-Newton Optimization for Deep Learning, Convex Optimization	
	Byzantine Chain Replication, Asynchronous Systems, (DistAlgo, Python)	
	Identification of user actions on Android apps, Computer Networks, (Android)	
	Process Knowledge extraction, Artificial Intelligence, (Python)	
	Object Tracking in Video and its application in Healthcare, B.Tech Thesis, (OpenCV)	
	Point Cloud Triangulation, Computer Graphics, (OpenGL, C++)	
	Automatic construction of 3D models from Architectural Line drawings, Computer Graphics (OpenGL, C++).	
Extra curriculars	☐ Silver medal in Inter Hall Thermocol and clay modelling at IIT Kharagpur ☐ Member of Azad Hall of Residence Fine Arts team at IIT Kharagpur	